L1: Entry 1 of 2                          File: PGPB              Jun 3, 2004

PGPUB-DOCUMENT-NUMBER: 20040106404
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040106404 A1

TITLE: Remote aircraft manufacturing, monitoring, maintenance and management system

PUBLICATION-DATE: June 3, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|------|------|-------|---------|
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APPL-NO: 10/307818    [PALM]
DATE FILED: December 2, 2002

INT-CL-PUBLISHED: [07] H04Q 7/20

INT-CL-CURRENT:

| TYPE | IPC | | DATE |
|------|-----|---|------|
| CIPS | B64 D | 47/00 | 20060101 |
| CIPS | B64 F | 5/00 | 20060101 |
| CIPS | G06 F | 9/445 | 20060101 |
| CIPS | H04 B | 7/185 | 20060101 |

US-CL-PUBLISHED: 455/431; 455/507
US-CL-CURRENT: 455/431; 455/507

REPRESENTATIVE-FIGURES: 1

ABSTRACT:

An aircraft wireless data communication system includes an aircraft computer/server
in communication with a plurality of aircraft systems. Access to the aircraft
systems via the computer/server is available in real-time via wireless
communication with a ground-based computer system. The ground-based computer system
includes a computer that can be accessed from one or more networks of computers.
Each authorized computer user on an airline, manufacturer, or supplier network has
remote real-time access to the aircraft computer/server. Properly authorized remote
users can: perform comparisons between the aircraft actual configuration identity

and an aircraft authorized configuration identity; perform system diagnostic testing; view system status and parameters; collaborate with users from local and remote organizations using real-time aircraft data; and upload and download software and data to and from aircraft systems.

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L1: Entry 2 of 2                          File: DWPI                Jun 9, 2004

DERWENT-ACC-NO: 2004-486480
DERWENT-WEEK: 200446
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TITLE: Remote aircraft manufacturing monitoring, maintenance and management system
has ground based communication system which receives aircraft configuration data
from server provided in air craft

INVENTOR: ENGDAHL, S W; GOULD, T W ; PARKER, J M ; REUTER, R J ; STOVNER, S R ;
KESTERSON, B P

PATENT-ASSIGNEE: BOEING CO (BOEI), ENGDAHL S W (ENGDI), GOULD T W (GOULI),
KESTERSON B P (KESTI), PARKER J M (PARKI), REUTER R J (REUTI), STOVNER S R (STOVI)

PRIORITY-DATA: 2002US-0307818 (December 2, 2002)

▓ Search Selected ▓   ▓ Search ALL ▓ · ▓ Clear ▓

PATENT-FAMILY:

| | PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|---|
| ☐ | EP 1426870 A2 | June 9, 2004 | E | 000 | G06F015/177 |
| ☐ | US 20040106404 A1 | June 3, 2004 | | 020 | H04Q007/20 |

DESIGNATED-STATES: AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LT LU
LV MC MK NL PT RO SE SI SK TR

APPLICATION-DATA:

| PUB-NO | APPL-DATE | APPL-NO | DESCRIPTOR |
|---|---|---|---|
| EP 1426870A2 | November 27, 2003 | 2003EP-0078744 | |
| US20040106404A1 | December 2, 2002 | 2002US-0307818 | |

INT-CL (IPC): G06F 15/177; H04Q 7/20

ABSTRACTED-PUB-NO: US20040106404A
BASIC-ABSTRACT:

NOVELTY - A server (12) in the aircraft (11) communicates with a ground based
communication system (GBCS) (16) linked to the aircraft manufacturer (26), aircraft
component supplier (28) and airline organization (30). The GBCS receives aircraft
configuration data from the server.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

(1) aircraft wireless data communication system;

(2) aircraft and GBCS wireless communication system;

(3) aircraft communication method;

(4) aircraft configuration management method;

(5) aircraft operating condition assess method; and

(6) aircraft conformity determination method.

USE - For managing manufacture, monitor and maintenance of aircraft. Also for managing manufacture, monitor and maintenance of ship, vehicle, train and spacecraft.

ADVANTAGE - Personnel can remotely monitor real time status of aircraft system using the aircraft configuration data.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the remote aircraft manufacturing monitoring, maintenance and management (RAM) system.

RAM system 10

aircraft 11

server 12

antenna 14

GBCS 16

satellite 20

manufacturer 26

supplier 28

organization 30

ABSTRACTED-PUB-NO: US20040106404A
EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.1/11

DERWENT-CLASS: T01 W05 W06 X25
EPI-CODES: T01-J07D1; T01-N01D; W05-D06A; W05-D07D; W05-D08E; W06-B08; W06-C08; X25-X;